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(54) **Cosmetic stick**

(57) There is provided a moisturizing cosmetic stick that moisturizes, has good wear, and full and even coverage. The stick comprises: about 1% to about 35% by weight water, about 0.1% to about 8% by weight of a gelling agent, about 1% to about 5% by weight of an emulsifier, about 5% to about 10% by weight of a hard wax, about 5% to about 25% by weight of a lipophilic polar solvent, about 1% to about 5% by weight of a clay, and about 5% to about 30% by weight of a bulking agent. The present invention is also directed to a process for making such a moisturizing stick.

**EP 1 018 332 A2**

## Description

### BACKGROUND OF THE INVENTION

#### 1. FIELD OF THE INVENTION

[0001] The present invention relates to a cosmetic stick. More particularly, the present invention is directed to a cosmetic stick for the lips and the skin ("both of which are called the lips" in this application) that has a high water content. Thus, the cosmetic stick can moisturize and at the same time protect the lips from damage.

#### 2. DESCRIPTION OF THE RELATED ART

[0002] The incidence of ultraviolet and infrared radiation on the human epidermis is linked to exposure to sun, and also to the lamps and dryers used in hairdressing salons. Infrared radiation may give rise to a dense multiplication of fine elastic fibers in the upper dermis and induce carcinogenesis. Moreover, infrared radiation may cause vasodilation, raise skin temperature and cause skin erythema. To protect the lips from deleterious effects resulting from dryness, heat and infrared and ultraviolet radiation, as well as to produce a desired cosmetic effect, a moisturizing or water based lipstick is desired.

[0003] To manufacture a conventional lipstick; fats; oils; colorants, such as dyes, pigments or lakes; and, other non-aqueous ingredients are added to a wax base that is melted to enable the ingredients to be thoroughly mixed. Then, the mixed ingredients are cast into molds which, after cooling, provide the lipstick. In such a lipstick, water is not usually incorporated into the lipstick formulation. Therefore, the lipstick when applied to the lips does not necessarily possess the smooth, soft attributes associated with other skin treatment products having water, such as skin creams, particularly those intended for moisturizing the lips.

[0004] Thus, it is desired to provide a lipstick that has the moisturizing attributes of skin products rather than conventional water-free lipsticks.

[0005] U.S. Patent No. 5,085,856 to Dunphy et al. discloses a cosmetic water-in-oil emulsion lipstick that requires, in addition to oil, wax, water and pigment, two or more emulsifiers including a phospholipid. U.S. Patent No. 5,108,737 and 5,310,547, also to Dunphy et al., disclose a colored cosmetic lipstick and a method for coloring lips that comprises water, a low fatty acid wax and a colorant (an aluminum salt). However, the stick must be formulated with no higher than about 0.5% by weight of a C10 to C26 fatty acid or the lipstick would lose structure, and certain colorants, such as barium and calcium lakes cannot be used in this formulation.

[0006] U.S. Patent No. 5,176,902 to Castro et al. discloses a colored cosmetic stick comprising a natural wax, a colorant, and a C12-C60 fatty acid ester that has

no C12-C60 fatty acid. The wax is treated with a C1-C60 monohydric or polyhydric alcohol to convert any C12-C60 fatty acid to the corresponding ester and to produce an esterified wax.

5 [0007] U.S. Patent No. 3,957,969 to Fujiyama is directed to a cosmetic stick comprising a water-in-oil emulsion. This stick has 1 to 50% water. According to this patent, a gel is prepared from a polyhydroxy compound and a non-ionic, surface active compound. This  
10 gel is mixed into a cosmetic base, and should produce a very soft pomade that would be difficult to manufacture.

[0008] U.S. Patent No. 5,593,662 to Deckner et al. discloses a moisturizing lipstick essentially free of water.

15 [0009] Transparent lipsticks are disclosed in several patents. For example, U.S. Patent No. 5,120,541 to Macaulay et al. discloses a transparent cosmetic stick composition having a lamellar structure that has a soap crystal growth inhibitor. U.S. Patent No. 5,427,771 to  
20 Grollier et al. also discloses a transparent composition for the skin.

[0010] Examples of lipsticks that are based on silicone derivatives are disclosed in U.S. Patent Nos. 5,750,095 and 5,556,613 to Arnaud et al., while U.S.  
25 Patent No. 4,820,510 to Arraudeau et al. discloses an anhydrous cosmetic make-up composition.

[0011] U.S. Patent No. 5,674,508 to Deserable et al. discloses a cosmetic composition for composing sticks for the lips or the skin comprising an anhydrous base in which a water-in-silicone emulsion is dispersed. The emulsion consists of an aqueous phase dispersed in a lipophilic phase comprising one or more silicones. U.S. Patent No. 5,672,339 to Soyama et al. discloses a composition for rouge for lips containing a volatile oil content, such as volatile siloxanes and isoparaffins, and a water-repellent polymer. U.S. Patent No. 5,505,937 to  
35 Castrogiovanni et al. discloses a lipstick composition that requires a silicone ester wax. U.S. Patent No. 5,334,372 to Kawamata et al. discloses a cosmetic composition requiring an alcohol-modified silicone ester derivative of a formula recited in the claim. U.S. Patent No. 5,288,482 to Krzysik is directed to a lipcare cosmetic composition that requires an alkylmethylpolysiloxane having a specific formula disclosed in the patent.  
40 U.S. Patent No. 5,085,855 to Shore provides lip color formulations that require a dimethicone siloxane, from about 10% to 20% lanolin oil/stearalkonium hectorite gelling agent, and a hydrocarbon-derived polymer.

[0012] Other lipstick compositions are found in U.S. Patent Nos. 5,753,240; 5,741,499; 5,466,457; 5,342,134; 5,197,814; 4,504,464; 4,492,686; 4,438,140; 3,957,969; 2,876,162 and 2,548,970; Belgian Patent No. 752,558 and Swiss Patent No. 519,913.

#### 55 SUMMARY OF THE INVENTION

[0013] It is an object of the present invention to provide a cosmetic stick that has a high water content.

[0014] It is another object of the present invention to provide such a stick that has an even and full coverage, high shine, and good wear properties.

[0015] It is still another object of the present invention to provide such a stick that is not sticky to the touch, has good chemical and photochemical stability and adhesion to the lip or skin, and does not leave a white film on the lip.

[0016] It is a further object of the present invention to provide such a stick that moisturizes, has a wet feel on the lips, and the ability to incorporate water soluble ingredients into a stick, such as a lipstick, balm, pomade or pot.

[0017] It is a still further object of the present invention to provide a process for making the moisturizing cosmetic stick that is easy to commercialize.

[0018] These and other objects of the present invention are provided by a cosmetic stick that comprises a high content of water, a gelling agent, an emulsifier, a hard wax, a lipophilic solvent, a clay and a bulking agent.

[0019] The present invention further provides a method of protecting the lips against the harmful effects of dryness, heat and infrared and ultraviolet radiation. The method comprises the application of the cosmetic stick of the present invention onto the lips.

#### DETAILED DESCRIPTION OF THE INVENTION

[0020] The cosmetic stick of the present invention can be a stick, such as a lipstick, pomade, balm, pot or other stick (hereinafter collectively called "stick"). Preferably, it is a lipstick. The stick has improved moisturizing properties, as well as good wear, even and full coverage, high shine, adhesion, good chemical and photochemical stability, and does not leave a white film. Also, the stick has a wet and cooling feel once applied and the ability to incorporate water soluble ingredients. The above benefits are achieved by the ability to have a stick with a high water content. As discussed below, the water content is preferably about 15% to about 25% by weight of the stick.

[0021] The cosmetic stick basically includes a water phase, an oil phase and, if desired, a fragrance. The water phase includes water, a gelling agent and, preferably, a humectant and a moisturizer. The oil phase includes the other ingredients of the stick, except for the fragrance, if any.

[0022] The water forms the majority of the water phase and provides a solvent for any water-soluble ingredients present in the moisturizing stick, which is called herein a hydrostick. The water is preferably demineralized water. The amount of water present is from about 1% to about 35% by weight of the stick. Preferably, water is present in an amount from about 15% to about 35%, more preferably about 15% by weight to about 25% by weight, and most preferably about 20% by weight of the stick. It is this high water content that

provides many benefits of the present stick.

[0023] The gelling agent, the second ingredient in the water phase, is about 0.1% to about 8% by weight, preferably about 0.1% to about 5% by weight of the stick. However, the gelling agent is more preferably about 1.5% to about 2.5% by weight of the stick. The gelling agent can be, for example, one or more polymethacrylates, carbomers, cellulose, water swellable Lucentite SWN, and Vee gums. The preferred gelling agent is glyceryl polymethacrylate.

[0024] As stated above, the water phase may include one or more humectants and moisturizers. The humectants and moisturizers are about .001% to about 10% by weight, preferably about 1.0% to about 3.0% by weight, and more preferably about 1.6% by weight of the stick. The preferred humectant is glycerin. The preferred moisturizer is hyaluronic acid sodium salt.

[0025] The ratio of water phase to the oil phase is 2:3 to 1:5. The water phase is preferably about 25% by weight of the stick, while the oil phase is preferably about 75% by weight of the stick. The oil phase includes one or more emulsifiers, hard wax, lipophilic solvent, clay and bulking agents, such as powder fillers. The oil phase may include other ingredients such as waxes, preservatives, bulking agents and colorants.

[0026] The emulsifier acts to uniformly disperse the ingredients. The emulsifier is about 1% to about 5% by weight of the stick. Preferably, the emulsifier is about 2% by weight of the stick.

[0027] The emulsifiers suitable for use in the present invention are preferably polyglyceryl fatty acid esters, and secondary emulsifiers, such as fatty acid alcohols. Such emulsifier systems include polyglyceryl-10 pentastearate/behenyl alcohol.

[0028] The present invention includes one or more hard waxes, preferably with a high melting point, namely greater than 80 degrees C. A hard wax is one having a needle penetration (mm/10) in the range of 2 to 8 based on ASTM-D-1321. The hard wax of the present invention is present in an amount about 5% to about 10% by weight of the stick. Preferably, it is about 7% by weight of the stick. The hard wax is preferably polyethylene, more preferably linear polyethylene, and ozokerite. Thus, the most preferred hard wax is a combination of linear polyethylene and ozokerite.

[0029] The present stick may include other waxes in the oil phase. For example, these waxes include natural waxes, and paraffin and synthetic waxes. Such waxes include, but are not limited to: candelilla, micro wax, beeswax, and mixtures thereof. The total amount of these other waxes if present in the hydrostick is about 3% to about 4% by weight of the stick.

[0030] The present stick also includes a lipophilic polar solvent in its oil phase. This solvent is present in an amount about 5% to about 25% by weight of the stick, preferably about 19% by weight of the stick. The preferred lipophilic polar solvent is a C12-15 alcohol benzoate.

[0031] The oil phase of the present stick also includes a thickener/gelling agent and a bulking agent that act as structure-enhancing agents. These agents provide body and strength to the moisturizing hydrostick thereby making it free-standing and capable of retaining its original shape. This attribute is especially helpful in the commercialization since the stick must maintain its structure.

[0032] A structure-enhancing agent suitable for use in the moisturizing hydrostick of the present invention is a clay. The clays include lithium magnesium silicate also known as smectite clay, bentonite clay, also known as wilkinite, montmorillonite represented by the formula  $A12O3.4SiO2.H2O$ , and mixtures thereof. Lithium magnesium silicate or smectite clay is preferred.

[0033] Smectite clays can be natural or synthetic. Synthetic smectite clays are preferred over the naturally occurring varieties since they typically have a lower impurity content. Such synthetic smectite SAN clay is distributed by Kobo Products Inc. and manufactured by Nikko Chemicals Co., Ltd. Kobo Products Inc. have disclosed the structure of their synthetic smectite clay, called Lucentite SAN, as including 60.00 to 70.00 percent lithium magnesium sodium silicate having the following empirical formula:  $(Na0.033(Mg2.67Li0.33)(Si4O4)(OH)2)$  and 30.00 to 40.00 percent quaternium-18  $([R2N(CH3)2])$ , where R is C16-C18 alkyl). Kobo Products Inc. have also stated that quaternium-18 is not reacted with lithium magnesium sodium silicate to form the Lucentite SAN.

[0034] The smectite clay has the property of forming highly viscous suspensions or gels. The smectite clay is preferably gelled with a polar lipophilic hydrocarbon-based solvent. The most preferred solvents contain an aromatic group, namely benzoate esters, such as C12-15 alcohols benzoate (Finsolv TN), and salicylate esters. However, the solvent C12-15 alcohol lactate is also preferred, since it also swells the synthetic smectite effectively.

[0035] Preferably, the amount of the smectite clay in the moisturizing hydrostick of the present invention is from about 1% to about 5% by weight of the stick. More preferably, the amount of the smectite clay is about 2% by weight of the stick.

[0036] The bulking agents add structure enhancing properties to the stick. Such bulking agents include mica, barium sulfate, nylon, talc, starch, calcium carbonate, silica, and mixtures thereof. The bulking agents and colorants are present in an amount about 5% to about 30% by weight, and preferably about 5% to about 15% by weight of the stick. The bulking agent is more preferably present in an amount about 11% of the stick. Colorants and pigments in powder form may also function as bulking agents. Such colorants include, for example, inorganic and organic colorants, such as barium lakes, calcium lakes, aluminum lakes, titanium dioxide, mica and iron oxides. It has been found that the present stick does not limit the use of the type of color-

ants, unlike prior art water containing lipsticks.

[0037] The hydrostick with the smectite clay and bulking agent has superior stick integrity and lattice strength, even at reduced wax levels. This imparts to the finished stick a smooth and creamy consistency. Moreover, the compositions containing the agents do not need to be extruded or compressed to form a cake or stick. The finished stick has improved stability over time and over a wide range of temperatures thus facilitating commercialization. In addition, clear, true colors can be provided.

[0038] A fragrance and/or flavor may be included in the present stick in an amount about 0.1% to about 2.0% by weight of the stick. As stated above, the fragrance and/or flavor preferably is neither in the oil nor the water phase, but is added separately.

[0039] The water and the oil phases provide the cosmetic stick with about 1% to about 35% by weight water, about 0.1% to about 8% by weight of the gelling agent, about 1% to about 5% by weight of the emulsifier, about 5% to about 10% by weight of the hard wax, about 5% to about 25% by weight of the lipophilic polar solvent, about 1% to about 5% by weight of the clay, and about 5% to about 30% the bulking agent.

[0040] The moisturizing hydrostick of the present invention may contain other ingredients in the oil phase, such as, for example, one or more pigments, thickeners, skin protectants, preservatives or stabilizers, and vitamins. The hydrostick may also include one or more perfumes, antioxidants, UV-absorbers (e.g. screening agents or sunscreens), germicides, and lipid materials.

[0041] The present invention may include one or more emollients. The total amount of the emollients present is about 20% to about 25% by weight of the stick.

[0042] The preferred emollients include: polytriglyceryl erucate/eleostearate, avocado, lanolin, preferably low odor, diisostearyl fumarate, myristyl lactate, and mixtures thereof. The polytriglyceryl erucate/eleostearate is a film forming emollient that is preferable as an emollient in the present stick. This particular emollient is present in an amount about 5% to about 10% by weight, and preferably about 6.5% by weight of the stick.

[0043] The present stick may also include one or more preservatives. These preservatives are present in an amount about 0.1% to about 3% by weight, and preferably about 0.5% by weight of the stick. Preferred preservatives include: EDTA, iodopropynylbutyl carbamate, 4-hydroxybenzoic acid, its esters and derivatives, such as methyl 4-hydroxybenzoate (methyl paraben), ethyl 4-hydroxybenzoate (ethyl paraben), propyl 4-hydroxybenzoate (propyl paraben) and butyl 4-hydroxybenzoate (butyl paraben). The most preferred preservatives include methyl paraben, propyl paraben and iodopropynylbutyl carbamate, and mixtures thereof.

[0044] The formula may also contain UV stabilizers and antioxidants, such as BHT, BHA, benzophenones such as: 2,4-dihydroxybenzophenone, 2,2'-dihydroxy-4-

methoxybenzophenone, 2,2'-dihydroxy-4,4'-dimethoxybenzophenone, 2,2'-dihydroxy-4,4'-dimethoxybenzophenone-5-sulphonic acid and its salts, 2,2',4,4'-tetrahydroxybenzophenone, 2-hydroxy-4-methoxybenzophenone, 2-hydroxy-4-methoxy-4'-methylbenzophenone, 2-hydroxy-4-methoxybenzophenone-5-sulphonic acid and its salts, 4-phenylbenzophenone, 2-ethylhexyl-4'-phenylbenzophenone-2-carboxylate, 2-hydroxy-4-n-octyloxybenzophenone and 4-hydroxy-3-benzophenone-carboxylic acid and its salts; benzotriazole derivatives such as 2-(2'-hydroxy-5'-methylphenyl)-2H-benzotriazole, 2-(2'-hydroxy-5'-tert-octylphenyl)-2H-benzotriazole, 2-(2'-hydroxy-3',5'-di-tert-octylphenyl)-2H-benzotriazole, 2-(2'-hydroxy-5'-cumylphenyl)-2H-benzotriazole and 2-(2'-hydroxy-3',5'-di-cumylphenyl)-2H-benzotriazole; disubstituted methane derivatives such as dianisoyl methane, 4-isopropyl dibenzoyl methane and 4-tert-butyl-4'-methoxy dibenzoyl methane.

[0045] The present stick may include a skin protectant, such as, for example, allantoin. Allantoin would be present in an amount about 0.1% to about 3% by weight, and preferably in an amount about 0.55% by weight of the stick.

[0046] The preferred stick may also include vitamins, such as, for example, tocopheryl acetate (vitamin E), and vitamins A and C, and beta carotene. Such vitamins are present in an amount about 0.1% to about 3% by weight, and preferably in an amount about 0.55% by weight of the stick.

[0047] The hydrostick of the present invention can take the form of a solid stick, such as, a lipstick, pomade, balm, pot, lip-gloss or of a cream that can be applied to the skin or the lips.

[0048] The present stick permits the use of high acid value substances, such as natural oils and waxes, having up to 2% free fatty acids without the stick losing its structure. In addition, the present stick, especially when used as a lipstick, provides a wet, cool, smooth refreshing or creamy feel, and applies evenly. Still further, the present stick can be made using conventional lipstick molding equipment.

[0049] The present invention includes a process for preparing the moisturizing hydrostick. The process includes forming the oil phase and the water phase, separately. Then, the two phases are mixed together until uniform, the fragrance/flavor is added and then poured into in a single row cavity or a single cavity mold. The mold should then be chilled at a low temperature, namely about 35 to about 40 degrees F, for a short period of time, namely less than ten minutes. This chilling process is important for the production of the final stick.

[0050] The hydrostick of the present invention is suitable for the lips, especially for applying to the lips a long lasting color with pleasant aesthetics to the lips. The hydrostick can also be used as a vehicle for a skin care agent to protect against exposure to adverse weather, including the wind and rain or extended expo-

sure to sunlight.

[0051] The present invention is further illustrated by the following example, which is designed to illustrate the invention without limiting its scope.

[0052] Obvious modifications and variations of the invention can be made without departing from the scope of the present invention as defined by the appended claims.

## Claims

1. A moisturizing cosmetic stick that moisturizes, has good wear, and full and even coverage, comprising:

a water phase being about 1% to about 40% by weight of the stick, said water phase having water and a gelling agent, wherein said water is in an amount about 15% to about 35% by weight of the stick; and

an oil phase being about 99% to about 60% by weight of the stick.

2. The stick of claim 1, wherein said oil phase includes, based on the weight of the stick, about 1% to about 5% by weight of an emulsifier, about 5% to about 8% by weight of a hard wax, about 5% to about 25% by weight of a lipophilic polar solvent, about 1% to about 5% by weight of a clay, and about 5% to about 30% by weight of a bulking agent.

3. The stick of claim 1, wherein said gelling agent is about 0.1% to about 8% by weight of the stick.

4. A moisturizing cosmetic stick, comprising

about 1% to about 35% by weight water;

about 0.1% to about 8% by weight of a gelling agent;

about 1% to about 5% by weight of an emulsifier;

about 5% to about 10% by weight of a hard wax;

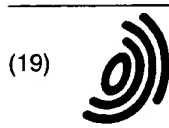
about 5% to about 25% by weight of a lipophilic polar solvent;

about 1% to about 5% by weight of a clay; and

about 5% to about 30% by weight of a bulking agent.

5. The stick of claim 4, further comprising other waxes and colorants.

6. The stick of claim 4, wherein said gelling agent is about 1.5% to about 2.5% by weight of the stick. about 5% to about 15% by weight of a bulking agent.
7. The stick of claim 4, wherein said gelling agent is glyceryl polymethacrylate. 5 18. The stick of claim 17, further comprising other waxes.
8. The stick of claim 4, wherein said emulsifier is a polyglyceryl fatty acid ester. 19. The stick of claim 17, further comprising colorants.
9. The stick of claim 4, wherein said hard wax is selected from the group consisting of polyethylene, ozokerite and mixtures thereof. 10 20. A process for making a moisturizing stick comprising:  
forming an oil phase;  
forming a water phase;  
mixing the oil phase and the water phase together in a mold; and  
chilling the mold at a temperature about 35 to about 40 degrees F, for less than ten minutes to form the stick.
10. The stick of claim 5, wherein said other waxes include natural waxes, paraffins and synthetic waxes. 15
11. The stick of claim 4, wherein said lipophilic polar solvent is C12-15 alcohol benzoates. 20
12. The stick of claim 4, wherein said clays are selected from a group consisting of lithium magnesium silicate, bentonite, montmorillonite, and mixtures thereof. 25
13. The stick of claim 4, wherein said clay is about 1% to about 3% by weight of the stick.
14. The stick of claim 4, wherein said bulking agent is selected from the group consisting of nylon, talc, starch, calcium carbonate, silica, barium sulfate, mica and mixtures thereof. 30
15. The stick of claim 4, further comprising a colorant that is selected from the group consisting of calcium lakes, barium lakes, aluminum lakes, titanium dioxide, iron oxides, and mixtures thereof. 35
16. The stick of claim 4, wherein the stick is a lipstick. 40
17. A moisturizing cosmetic stick, comprising:  
about 15% to about 25% by weight of water;  
about 0.1% to about 5% by weight of a gelling agent; 45  
about 1% to about 5% by weight of an emulsifier; 50  
about 5% to about 10% by weight of a hard wax;  
about 5% to about 25% by weight of a lipophilic polar solvent; 55  
about 1% to about 5% by weight of a clay; and



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wax, about 5% to about 25% by weight of a lipophilic polar solvent, about 1% to about 5% by weight of a clay, and about 5% to about 30% by weight of a bulking agent. The present invention is also directed to a process for making such a moisturizing stick.

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## EUROPEAN SEARCH REPORT

Application Number  
EP 99 12 5676

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	EP 0 522 624 A (UNILEVER ET AL.) 13 January 1993 (1993-01-13) * claims 1,2,4,8,13,14 * * page 2, line 3 - line 6 * * page 2, line 29 - line 30 * * page 3, line 5 - line 39 * * page 3, line 40 - page 4, line 32 * * page 4, line 30 - page 5, line 2 * * page 5, line 27 - line 28 * * page 6, line 24 - line 38 * * page 7, line 23 - line 24 * * page 7, line 36 - line 44 * * example 1 *	1,3,20	A61K7/027
Y	---	2,4-19	
X	US 5 843 407 A (EL-NOKALY ET AL.) 1 December 1998 (1998-12-01) * claims 1,6,10,11,18 * * column 1, line 9 - line 12 * * column 2, line 57 - column 3, line 29 * * column 3, line 3,6 * * column 3, line 10 - line 25 * * column 5, line 6 - line 48 * * column 6, line 42 - line 67 * * column 8, line 15 - line 18 * * column 12, line 40 - line 44 * * column 16, line 1 - line 24 * * column 17, line 41 - line 58 * * column 18, line 46 - column 19, line 2 * * column 19, line 15 - line 19 * * examples 1,2 *	4-6, 8-10, 12-16,20	TECHNICAL FIELDS SEARCHED (Int.Cl.7)  A61K
Y	---	2,4-19	
	-/--		
The present search report has been drawn up for all claims			
Place of search <b>BERLIN</b>		Date of completion of the search <b>21 February 2003</b>	Examiner <b>Alvarez Alvarez, C</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons  & : member of the same patent family, corresponding document	

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## EUROPEAN SEARCH REPORT

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## DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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Place of search

BERLIN

Date of completion of the search

21 February 2003

Examiner

Alvarez Alvarez, C

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